

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

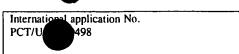
Applicant's or agent's file reference 4239-64830	FOR FURTHER ACTION		on of Transmittal of International Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/n	onth/year)	Priority date (day/month/year)				
PCT/US03/20498	27 June 2003 (27.06.2003)	·	28 June 2002 (28.06.2002)				
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC						
IPC(7): C12N 9/24, 15/10, 15/55, 15/63	s; C07H 21/04 and US CI.: 435/	252.3, 252.33, 32	0.1, 325, 350, 351, 352				
Applicant			·				
THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 							
2. This REPORT consists of	a total of sneets, includin	g this cover she	et.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a	total of sheets.						
3. This report contains indica	tions relating to the following	items:	•				
I Basis of the repo	I Basis of the report						
II Priority							
III Non-establishme	ent of report with regard to no	velty, inventive	step and industrial applicability				
IV Lack of unity of	invention	•					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documen							
VII Certain defects i	VII Certain defects in the international application						
VIII Certain observations on the international application							
Date of submission of the demand	Dat	e of completion	of this report				
16 December 2003 (16.12.2003)		29 September 2004 (29.09.2004)					
Name and mailing address of the IPEA/U Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	J I Tote	orized officer Lines/ phone No. (571)	272-1600				
Form PCT/IPEA/409 (cover sheet)(July 1998)							

NTERNATIONAL (IMINARY EXAMINATION REPORT
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International application No.	
PCT/U 498	

I.	Basis of the report			
1.	With regard to the elements of the international application:*			
	the international application as originally filed.			
	the description:			
	pages 1-57 as originally filed			
	pages NONE , filed with the demand			
	pages NONE , filed with the letter of			
	the claims:			
	pages 58-61 , as originally filed			
	pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand			
	pages NONE , filed with the letter of			
	the drawings:	-		
	pages 1-6 , as originally filed			
	pages NONE , filed with the demand			
	pages NONE , filed with the letter of			
	the sequence listing part of the description:			
	pages 1-9, as originally filed			
	pages NONE , filed with the demand , filed with the letter of .			
2	With regard to the language, all the elements marked above were available or furnished to this Au	sthority in the		
	language in which the international application was filed, unless otherwise indicated under this item			
	These elements were available or furnished to this Authority in the following language which			
	the language of a translation furnished for the purposes of international search (under Rule23.	.1(b)).		
	the language of publication of the international application (under Rule 48.3(b)).	` ''		
	the language of the translation furnished for the purposes of international preliminary examination	ation(under Rules		
	55.2 and/or 55.3).	mon(under Ruies		
	With regard to any nucleotide and/or amino acid sequence disclosed in the international applicati	on, the		
	international preliminary examination was carried out on the basis of the sequence listing:			
	contained in the international application in printed form.			
	filed together with the international application in computer readable form.			
furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form.				
	international application as filed has been furnished.			
	The statement that the information recorded in computer readable form is identical to the writ	ten sequence listing		
	has been furnished.			
4.	The amendments have resulted in the cancellation of:			
	the description, pages NONE			
	the claims, Nos. NONE			
	the drawings, sheets/fig NONE			
5.	This report has been established as if (some of) the amendments had not been made, since they have been	en considered to go		
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	J		
this	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules ? Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.	70.16 and 70.17).		





V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
. STATEMENT	_				
Novelty (N)	Claims	1-35	YES		
	Claims	NONE	NO		
Inventive Step (IS)	Claims	1-35	YES		
	Claims	NONE	NO		
Industrial Applicability (IA)	Claims	1-35	YES		
	Claims	NONE	NO		
. CITATIONS AND EXPLANATIONS claims 1-35 meet the criteria set out in PCT Article execution. Claims 1-35 meet the criteria set out in PCT Article execution and be made or used in industry.					